

REMOVING METHOD FOR CHROMIUM AND NICKEL CONTAINED IN IRON CHLORIDE AQUEOUS SOLUTION

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Abstract of JP62192588

PURPOSE: To regenerate an FeCl₂ aq. soln. to an FeCl₃ aq. soln. by adding an iron piece to an FeCl₃ waste liquid contg. Cr and Ni which is obtained by treating stainless steel and precipitating and removing Cr and thereafter by adding iron powder to the filtered liquid to precipitate and remove Ni and blowing Cl₂ into the residual liquid contg. FeCl₂.

CONSTITUTION: Since Cr and Ni are contained in a liquid wherein stainless steel is subjected to etching treatment by an FeCl₃ aq. soln., an iron piece of the excess amount than the amount necessary to change the residual FeCl₃ to FeCl₂ is added and allowed to react with each other at 1-3 pH at 50-90 deg.C temp. to precipitate Cr as Cr(OH)₃ and thereafter it is filtered, removed and recovered. Iron powder having ≥ 150 mesh is added to the FeCl₂ aq. soln. of the residual liquid in ≥ 1 time mol for contained Ni and allowed to react at 80 deg.C for 2-8hr to precipitate the contained Ni and it is filtered and recovered. The FeCl₂ aq. soln. wherein Cr and Ni are removed therefrom is blown with gaseous Cl₂ and regenerated as the FeCl₃ aq. soln. and reutilized as a treating liquid of stainless steel.

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